

Attorney Docket No.: P-5235-US14

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): DALTON, James T. et al. Examiner: KUMAR, Shailendra

Serial No.: 10/849,039 Group Art Unit: 1621

Filed: May 20, 2004

Title: METABOLITES OF SELECTIVE ANDROGEN RECEPTOR MODULATORS

AND METHODS OF USE THEREOF

Mail Stop Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

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1. 🖂	listing documents including patents, publications and other information for consideration by
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	this information disclosure statement; and/or
2. 🔲	listing documents including patents, publications and other information that have been
	previously cited or submitted to the Patent Office in prior application U.S. Serial No,
	filed which is properly identified and relied on for an earlier effective filing date under
	35 U.S.C. 120 for consideration by the Examiner; however, in accordance with 37 C.F.R.
	1.98(d), copies of such documents are not included in this information disclosure statement;
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3. 🖂	listing documents including patents, publications, and other information for consideration by
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4. 🔲	listing other information for the Examiner's consideration which was cited in a
	communication from a foreign patent office in a counterpart foreign application, a copy of
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The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

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Application into the national stage or before mailing of the first Office Action on the merits of
he subject Application or a request for continued examination thereof, whichever event
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II) After the period specified in (I) but before the mailing date of either a final
Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311
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the Form PTO-1449 was either (i) cited in a communication from a foreign patent
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Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be fequired, including any required extension of time fees, or credit any overpayment to Deposit Acquirt No. 50-3355.

Mark S. Cohen

Attorney/Agent for Applicant(s)

cctfully submitted.

Registration No. 42,425

Dated: July 11, 2007

Pearl Cohen Zedek Latzer, LLP 1500 Broadway, 12th Floor New York, New York 10036 Tel: (646) 878-0800

50-3355.

Fax: (646) 878-0801



PTO/SB/08a (07-05)
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Substitu	ite for form 1449A	VPTO		Complete if Known		
				Application Number	10/849,039	
INFO	RMATION	DISCLOSU	JRE	Filing Date	May 20, 2004	
STA	TEMENT B	Y APPLICA	ANT	First Named Inventor	DALTON, James T.	
				Art Unit	1621	
(u	se as many she	ets as necessar)	1)	Examiner Name	KUMAR, Shailendra	
Sheet 1 of 4		4	Attorney Docket Number	P-5235-US14		

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
nitials*	No. 1	Number-Kind Code ^{2 (# known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
	Λ	09/935,044	08/23/2001	Dalton et al.	
	В	09/935,045	08/23/2001	Dalton et al.	
	С	09/644,970	08/2/2000	Dalton et al.	
	D	6,019,957	02/01/2000	Miller, et al.	
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	G	4,636,505	01/13/ 1987	Tucker	
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	1	4, 465,507	08/14/1984	Konno, et al.	
	J	3,875,229	04/01/1975	Gold	
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	U	6,998,500	02-2006	Dalton, et al	
	V	7,026,500	04-2006	Dalton, et al	AL AND THE STATE OF THE STATE O

Examiner	Date
Signature	Considered

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				Application Number	10/849,039		
INFO	RMATION	DISCLOS	URE	Filing Date	May 20, 2004		
STATEMENT BY APPLICANT				First Named Inventor	DALTON, James T.		
				Art Unit	1621		
(u	se as many she	ets as necessar	y)	Examiner Name	KUMAR, Shailendra		
Sheet	2	of	4	Attorney Docket Number	P-5235-US14		

		FOREIGN PA	TENT DOCUM	MENTS		
Examiner Initlals*	Cite No. 1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁶ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	τ°
	w	WO98/53826	12/03/1998	Dalton et al.		
	x	EPO 100 172	02/08/1984	Tucker		
	Y	EP0 040 932	02/12/1981	Crossley et al.		
	z	WO95/19770	07/27/1995	Gray		
	AA	EP 0253503	12/11/1991	Tucker		C

	******	FOREIGN F	PATENT DOC	UMENTS		
Examiner Initials* Cite No.1	Cite No. 1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	75
	ВВ	WO 02 00617	01-03-2002	Bristol Myers Squibb		
	СС	WO 01 27622	04-19-2001	Bristol Myers Squibb		
	DD	WO 01 28990	04-26-2001	Nobex Corporation		
	EE	WO 01 34563	05-17-2001	Nobex Corporation		
	FF	WO 98 05962	02-12-198	Panvera Corporation		
	GG	EP 000 2892	02-06-1985	Imperial Chemical Indust.		
	нн	JP 52-128329	10-27-1977	Teikoku Hormone Mfg.		
	II	JP 54-63047	12-16-1980	Glen, et al		\top
	JJ	GB 1360001	03-16-1970	Neri, et al		\top
	кк	WO 95 19770	07-25-1995	Sepracor Inc.		T
	LL	WO 02 016310	02-28-2002	Dalton, et al		
	ММ	WO 98 55153	12-10-1998	Dalton, et al		T
	NN	WO 03049675	06-19-2003	GTX Inc.		
	00	WO 03065992	08-14-2003	GTX Inc.		

Examiner	Date	
Signature	Considered	

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Substit	tute for form 1449	B/PTO		Complete if Known			
				Application Number	10/849,039		
INFO	DRMATION	DISCLO	SURE	Filing Date	May 20, 2004		
STA	TEMENT B	Y APPLI	CANT	First Named Inventor	DALTON, James T.		
i.				Art Unit	1621		
(u	se as many she	ets as necess	ary)	Examiner Name	KUMAR, Shailendra		
Sheet	3	of	4	Attorney Docket Number	P-5235-US14		

		NON PATENT LITERATURE DOCUMENTS	
Examiner nitials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	РР	Howard Tucker and Glynne J. Chesterson, J. Med Chem. 1988, 31, pp. 885-887, "Resolution of the Nonsteroidal Antiandrogen - 4'-Cyano-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-3'-(trifluoromethyl)-propionanilide and the Determination of the Absolute Configuration of the Active Enantiomer"	
	QQ	D. McKillop, et al., "Enantioselective metabolism and pharmacokinetics of Casodex in the male rat", Xenobiotica, 1995, Vol. 25, No. 6, 623-634.	
	RR	Leonid Kirkovsky, et al., "[125]-Radionated Bicalutamide Analogs as Potential Imaging Agents for Prostate Cancer", Poster Presentation MEDI 155, 214th ACS National Meeting, Las Vegas, NV, Sept. 7-11, 1997, Department of Pharmaceutical Sciences, University of Tennessee, Memphis, TN 38163	
	ss	David T. Baird and Anna F. Glasier, "Hormonal Contraception - Drug Therapy", The New England Journal of Medicine, May 27, 1993, pp. 1543 - 1549	
	тт	F.C. W. Wu, "Male Contraception: Current Status and Future Prospects", Clinical Endocrinology, (1988), 29, pp. 443-465	
	บบ	Carl Djerassi and S.P. Leibo, "A new look at male contraception", Nature, Vol. 370, pp. 11-12	
	vv	World Health Organisation Task Force on Methods for the Regulation of Male Fertility, "Contraceptive efficacy of testosterone-induced azoospermia in normal men", The Lancet, Vol. 336, October 20, 1990, pp. 955-959and 1517-1518	
	ww	C. G. Francisco, et al., "Long-acting contraceptive agents: testosterone esters of unsaturated acids", Steroids, January 1990, vol. 55, Butterworths	
	xx	John M. Hoberman and Charles E. Yesalis, "The History of Synthetic Testosterone", Scientific American, February 1995, pp. 76-81.	
	YY	Leonid Kirkovsky, et al., "Approaches to Irreversible non-steroidal chiral antiandrogens", Department of Pharmaceutical Sciences, University of Tennessee, 47th Southeast/51st Southwest Joint Regional Meeting of the American Chemical Society, Memphis, TN, Nov. 29-Dec. 1, 1995	
	zz	David J. Handelsman, "Bridging the gender gap in contraception: another hurdle cleared" The Medical Journal of Australia, Vol. 154, February 18, 1996, pp. 230-233.	

	Market Control of the		
Examiner		Date	
Signature		Considered	

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO				Complete if Known	
				Application Number	10/849,039
INFORMATION DISCLOSURE				Filing Date	May 20, 2004
STATEMENT BY APPLICANT			CANT	First Named Inventor	DALTON, James T.
				Art Unit	1621
(use as many sheets as necessary)		Examiner Name	KUMAR, Shailendra		
Sheet	4	of	4	Attorney Docket Number	P-5235-US14

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serlal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		
	a	Edwards JP, Higuchi RI, Winn DT, Pooley CLF, Caferro TR, Hamann LG, Zhi L, Marschke KB, Goldman ME, and Jones TK. Nonsteroidal androgen receptor agonists based on 4-(trifluoromethyl)-2H-pyrano[3,2-g]quinolin-2-one. Bioorg. Med. Chem. Lett., 9: 1003, 1999.			
	ь .	Zhi L, Tegley CM, Marschke KB, and Jones TK. Switching androgen receptor antagonists to agonists by modifying C-ring substituents on piperidino[3,2-g]quinolone. Bioorg. Med. Chem. Lett., 9: 1009, 1999.			
	c	Higuchi RI, Edwards JP, Caferro TR, Ringgenberg JD, Kong JW, Hamann LG, Arienti KL, Marschke KB, Davis RL, Farmer LJ, and Jones TK. 4-Alkyl- and 3,4-diaklyl-1,2,3,4-tetrahydro-8-pyridono[5,6-g]quinolines: potent, nonsteroidal androgen receptor agonists. Bioorg. Med. Chem. Lett., 9:1335,1999.			
	d	Hamann LG, Mani NS, Davis RL, Wang XN, Marschke KB, and Jones TK. Discovery of a potent, orally active nonsteroidal androgen receptor agonist: 4-ethyl-1,2,3,4-tetrahydro-6-(trifluoromethyl)-8-pyridono[5,6-g]-quinoline (LG121071). J. Mcd. Chem., 42: 210, 1999.			
	e	Rosen J, Day A, Jones TK, Jones ET, Nadzan AM, and Stein RB. Intracellular receptors and signal transducers and activators of transcription superfamilies: novel targets for small-molecule drug discovery. J. Med. Chem., 38: 4855, 1995.			
	f	Dalton JT, Mukherjee A, Zhu Z, Kirkovsky L, and Miller DD. Discovery of Nonsteroidal Androgens. Biochem. Biophys. Res. Commun.,244(1):1-4, 1998.			
	g	Edwards JP, West SJ, Pooley CLF, Marschke KB, Farmer LJ, and Jones TK. New nonsteroidal androgen receptor modulators based on 4-(trifluoromethyl)-2-(1H)-Pyrololidino[3,2-g]quinolone. Bioorg. Med. Chem. Lett., 8: 745, 1998.			
	h	Eliason, et al "High Throughput Fluorescence Polarazation-Based Screening Assays for the Identification of Novel Nuclear Receptor Ligands." Abstracts of Papers, 223 rd ACS National Meeting, Orlando Fla. U.S. 2002			
	i	Berger, et al "Concepts and Limitations in the Application of Radiolabeled antiandrogens, estrogens, or androgens as isotropic scanning agents fro the prostate." Invest. Urol. 1975 1391, 10-16			
	j	Narayanan, et al "Steroidal Androgens and Nonsteroidal, Tissue Selective Androgen Receptor Modulators (SARM) Regulate Androgen Receptor Function Through Distinct Genomic and Non-Genomic Signaling Pathways." The Endocrine Society – Programs and Abstracts – 89 th Annual Meeting – Paper P1-595.			
	k	Yepuru, et al "AN Angrogen Receptor-b Specific Selective Estrogen Receptor Modulator (SERM) Inhibits the Growth of the Prostate Cancer Cells and Stromal-Epithilial Tumor Xenograft." The Endocrine Society – Programs and Abstracts – 89th Annual Meeting – Paper OR6-3.			
		Dalton, et al "Therapeutic Promise of Selective Androgen Receptor Modulators (SARSs): Preclinical and Clinical Proof-of-Concept Studies." The Endocrine Society – Programs and Abstracts – 89 th Annual Meeting – Paper S41-2.			

Examiner	:	Date	
Signature	<u> </u>	Considered	

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